PROJECT DESCRIPTION

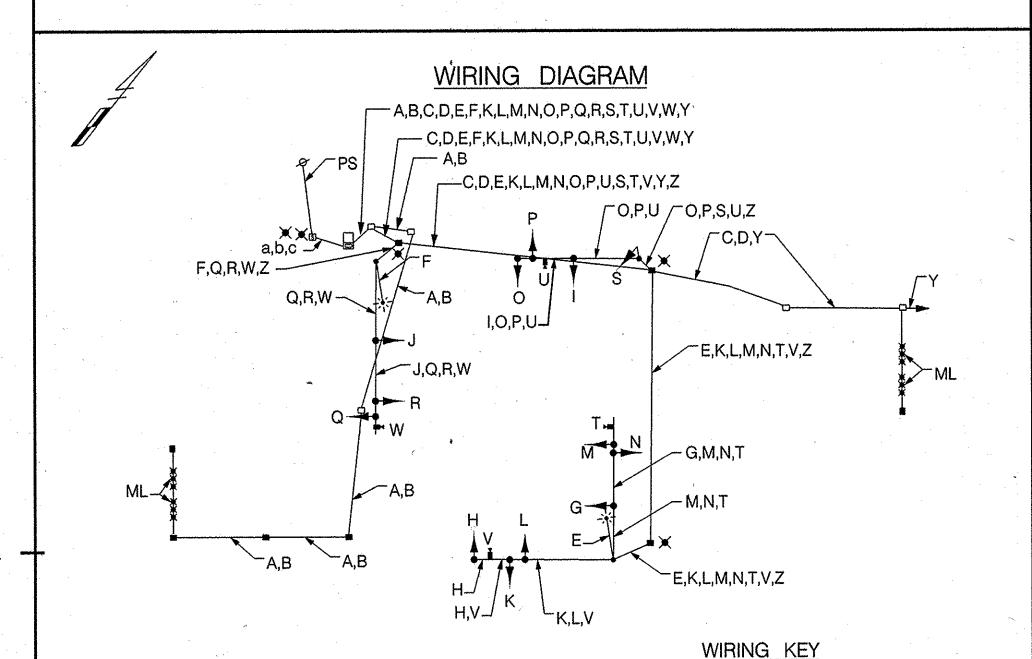
THIS PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC CONTROL SIGNAL AND SYSTEMIZATION AT THE INTERSECTION OF ALT. US 1 AND SULPHUR SPRING ROAD IN BALTIMORE COUNTY. ALT. US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR ALT. US 1 AND SIDE STREET SPLIT PHASING. THIS PHASING WILL NOT CHANGE

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED HOUSED IN A NEMA "6" BASE MOUNTED CABINET WILL BE USED



-D MICRO-LOOP PROBE LEAD-IN
-F 2-CONDUCTOR ELECTRICAL CABLE
(NO. 12 A.W.G.) TRAY CABLE
-J 5-CONDUCTOR ELECTRICAL CABLE

5-CONDUCTOR ELECTRICAL CABLE
(NO. 14 A.W.G.)

7-CONDUCTOR ELECTRICAL CABLE
(NO. 14 A.W.G.)

VIDEO DETECTION CABLE

NOT USED

Y EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE
Z STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

WHE (NO. 6 A.W.G.)

1-CONDUCTOR ELECTRICAL CABLE
(NO. 4 A.W.G.)

MICRO-LOOP PROBE

(NO. 4 A.W.G.)

MICRO-LOOP PROBE

PROPOSED ELECTRIC SERVICE

GROUND ROD

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY	DESCRIPTION
149 SF 2 EA	SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING D3-2 DUAL FACED SIGN (VAR. x 16 IN.) - MAST ARM
2 EA	SHIELD ASSEMBLEY (24" x 63") - GROUND MOUNT
2 EA	SHIELD ASSEMBLEY (36" x 87") - GROUND MOUNT
2 EA	D3-2 SINGLE FACE SIGN (VAR. X 32") - MAST ARM MOUNT
1 EA	R3-5(L) SIGN (30" X 36") - MAST ARM MOUNT
1 EĄ	R3-6 MOD. SIGN (36" X 36") - MAST ARM MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS)
1 EA	FOUR-CHANNEL LOOP DETECTOR AMPLIFIER

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

•		
ITEM NOS.	<u>QUANTITY</u>	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
5002	100 LF	5 IN YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
8001	40 EA	12 IN. VEHICULAR SIGNAL HEAD SECTION
8004	15 EA	8 IN VEHICULAR SIGNAL HEAD SECTION
8011	1 EA	METERED SERVICE PEDESTAL
8017	1 EA	70 FT.MAST ARM AND POLE
8018	1 EA	60 FT.MAST ARM AND POLE
8019	4 EA	NON-INVASIVE MICRO-LOOP PROBE SET
8022	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8025	1 EA	50 FT/70 FT. TWIN MAST ARMS AND POLE
8027	4 EA	VIDEO DETECTION CAMERA AND CABLE
8032	420 LF	SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8033	430 LF	SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8035	36 LF	WOOD SIGN SUPPORTS (4 IN. X 6 IN.)
8038	300 LF	NO. 6 AWG STRANDED BARE COPPER WIRE
8043	70 LF	ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
8044	7 EA	ELECTRICAL HANDHOLE
8045	66 SF	INSTALL GROUND MOUNTED SIGN
8046	83 SF	INSTALL OVERHEAD SIGN
8052	2 EA	250 WATT HPSV LUMINAIRE
8058	100 LF	ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8059	2250 LF	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8060	430 LF	ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
8063	2 EA	15 FT. STREET LIGHTING ARM

NOTE:

THE FOLLOWING QUANTITIES ARE FOR THE INTERCONNECT AND OTHER ITEMS NOTED TO BE INSTALLED ON THE INTERCONNECT PLAN.

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY DESCRIPTION

1 EA VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NOS.	QUANTITY	DESCRIPTION
8001	74 EA	12 IN VEHICULAR SIGNAL HEAD SECTION
8004	9 EA	8 IN. VEHICULAR SIGNAL HEAD SECTION
8019	2 EA	NON-INVASIVE MICRO-LOOP PROBE SET
8027	1 EA	VIDEO DETECTION CAMERA AND CABLE
8030	400 LF	REMOVE AND REINSTALL EXISTING CABLE
8032	170 LF	SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8033	180 LF	SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8051	1580 LF	12 PAIR COMMUNICATION CABLE - UNDERGROUND

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787–7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.

QUANTITY

NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

DESCRIPTION

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 321-2781/2785

STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE

(410) 321–2761

MR. MICHAEL PASQUARIELLO
ASSISTANT DISTRICT ENGINEER - UTILITIES

SSISTANT DISTRICT ENGINEER – UTI 10) 321–2843

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,

MS. DARLENE EIDE

MR. HOBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787–7631

SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787–7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

PHASING CHART

	1	((0)((()()()()()()()()()()()()()()()()()(2 (R) (Y) (Y) (G) (G)	3 R Y Q	4	5 R Y- Y G- G	R V Y	7 (R) Y (G) (G)	80 (R) Y (G) (G)	9 (8)			12 (R) (G)	
PHASE 1 & 5	R ← G−	R + G−−	R ← G	R	R ◆G	R ← G~	R	R	R	R	R	R	R	
5 CHANGE		PHAS		MAY	CHANG	E TO	PHASE	1 & 6,	2 & 5,	OR 2 8	& 6	·		7.
PHASE 1 & 6	G ◆G	+G−	G ← G−	G	R	R	R	R	R	R	R	R	R	*
1 & 6 CHANGE	G ◆Y−	G +Y-	G 4 -Y	G	R	R	R	R	R	R	, R	R	R	
PHASE 2 & 5	R	R	R	R.	G +G−	-G -G	G	R	R	R	R	R	R	<u> </u>
5 CHANGE	R	R	R	R	G ◆Y	G ◆Y—	G	R	R	R	R	R	R	. .
PHASE 2 & 6	G	G	G	G	G	G	G	R	R	R	R	R	R	4
2 & 6 CHANGE	Υ	Υ	Υ	Υ	Υ	Υ	Υ	R	R	R	R	R	R	
PHASE 3	R	R	R	R	R	R	R G≯	R	R	R	+ G−	ဇ¢ ဗု	G	

FLY | FLY | FLY | FLY | FLY | FLY | FLR | FLR | FLR | FLR |

TOD NO: AT913-11 SHA NO: BA649A52/B52 US 1 ALT: SULPHUR SPRING TO VICTORY LANE

RAFFIC CONCEPTS INC.

PHASE 4

4 CHANGE

FLASHING

OPERATION

325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101

FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY

GENERAL INFORMATION PLAN

US 1 ALT AND

SULPHUR SPRING ROAD

SCALE NONE	DATE	10-3-07	CONTRACT NO.	AT9135185			
DESIGNED BY	T. ZAYDEL	COUNTY		IMORE			
DRAWN BY	T. ZAYDEL	LOGMILE	03A00101.52				
CHECKED BY _	K. SCHMID	T.I.M.S. NO	. <u> </u>	822			
F.A.P. NO.	N/A	TOD NO.					